WORK SLIP AS PER FORM NO PWG-45

NAME OF WORK	: Additional Works To Jalahalli Govt School In Ward no 16.
Sanction NO	:
Work Order No & Date	: RPND/EE/Tend/08/2021-22 & 14.09.2021
Date of commencement	:
Date of completion As per tender	:
Tender time	: 12 Months
Estimated Cost	:
Tender amount	:
Agency	: Sri. (M/s K DAMODAR & CO) CLASS I CONTRACTOR, Malleshwaram, Bangalore

COMPARISION OF EXPENDITURE WITH THE TENDER AWARD

Item No.	Tender Item No.	Unit	As per BOQ			Actual	Executed beyond tender quantity up to 125%			Executed over & above 125% of tender quantity			As per actuals/Anticipated		Excess	Savings	Remarks
			Qty	Rate	Amount	Qty	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Amount	Amount	Amount	
1	KSRRB M200-12.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete,-wood work, steel work, including T&P and scaffolding wherever necessary,sorting the dismantled material, disposal of unserviceablematenal and stacking the serviceable material with all lifts complete as per specifications.KSRRB M200-12.2.-d o -i) Lime/Cement Concrete. I. By Manual Means :B. Cement Concrete Grade M-15 & M-20	Cum	28.03	661.00	18527.83	28.05	28.1	661.00	18541.05	0.00		0.00	28.05	18541.05	13.22		
2	KSRRB M200-14 1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceablematenal and stacking the serviceable material with all lifts complete as per specifications, ii) Dismantling Brick I Tile work. A. In lime mortar. MORTH Specification	Cum	100.05	417.00	41720.85	100.05	100.1	417.00	41721.62	0.00		0.00	100.05	41721.62	0.00		
3	KSRB 2-1.1 :Earthwork in surface excavation in Ordinary Soil for Levelling and Lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up to 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. (Page no. 6: item 2.1 P.W.D. SR-2018-19)	Cum	1158.76	290.00	336040.40	0.00	0.0	290.00	0.00	0.00		0.00	0.00	0.00	0.00	336040.40	

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	KSRB 4.2.7 Providing and laying in position reinforced cement concrete of **design mix M20** with OPC cement @ 320kgs. with 20mm and down size graded granite metal coarse aggregates @0.65cum and fine aggregates @ 0.46cum with superplastisizer @3lts confirming to IS9103: 1999 Healfmmed 2006 machine mixed concrete laid in layers not exceeding 15 cms thick vibrated for all works in ground floor level for roof slabs staircase lintles and beams retaining walls return walls walls (any thickness) including attached pilasters columns pillars posts struts buttresses string or lacing courses parapets coping bed blocks anchor blocks plain window cills fillets etc. including cost of all materials labour HOM of machinery curing complete but excluding cost of reinforcement as per specifications.																	
9	KSRB 4.2.7 Providing and laying in position reinforced cement concrete of **design mix M20** with OPC cement @ 320kgs. with 20mm and down size graded granite metal coarse aggregates @0.65cum and fine aggregates @ 0.46cum with superplastisizer @3lts confirming to IS9103: 1999 Healfmmed 2006 machine mixed concrete laid in layers not exceeding 15 cms thick vibrated for all works in ground floor level for roof slabs staircase lintles and beams retaining walls return walls walls (any thickness) including attached pilasters columns pillars posts struts buttresses string or lacing courses parapets coping bed blocks anchor blocks plain window cills fillets etc. including cost of all materials labour HOM of machinery curing complete but excluding cost of reinforcement as per specifications.	Cum	57.42	7210.00	413998.20	0.00	7210.00	0.00	0.00	0.00	0.00	0.00	0.00	413998.20
10	KSRB 4.2.7 Providing and laying in position reinforced cement concrete of **design mix M20** with OPC cement @ 320kgs. with 20mm and down size graded granite metal coarse aggregates @0.65cum and fine aggregates @ 0.46cum with superplastisizer @3lts confirming to IS9103: 1999 Healfmmed 2006 machine mixed concrete laid in layers not exceeding 15 cms thick vibrated for all works in ground floor level for roof slabs staircase lintles and beams retaining walls return walls walls (any thickness) including attached pilasters columns pillars posts struts buttresses string or lacing courses parapets coping bed blocks anchor blocks plain window cills fillets etc. including cost of all materials labour HOM of machinery curing complete but excluding cost of reinforcement as per specifications.	cum	33.99	7270.00	247107.30	63.09	42.5	7270.00	308884.13	20.60	7112.02	146521.22	63.09	455405.35	208258.05	0.00
11	KSRB 4.2.7 Providing and laying in position reinforced cement concrete of **design mix M20** with OPC cement @ 320kgs. with 20mm and down size graded granite metal coarse aggregates @0.65cum and fine aggregates @	cum	223.21	7328.00	1635682.88	332.01	279.0	7328.00	2044603.60	53.00	7112.02	376923.69	332.01	2421527.29	785944.41	0.00
12	Providing and removing centering, shuttering, struting propping etc. and removal of form work for polygon in plan including cost of all materials. labour columns, pillars, post and struts, square / rectangular/	Sqm	56.24	306.00	17821.44		306.00	0.00		0.00			0.00	0.00	0.00	17821.44
13	Providing and removing centering, shuttering, struting propping etc. and removal of form work for polygon in plan including cost of all materials. labour columns, pillars, post and struts, square / rectangular/	Sqm	39.04	541.00	21120.64	85.37	48.8	541.00	26400.80	36.57	544.80	19921.02	85.37	46321.82	25201.18	0.00
14	Providing and removing centering, shuttering, struting propping etc. and removal of form work for polygon in plan including cost of all materials. labour columns, pillars, post and struts, square / rectangular/	Sqm	39.04	543.00	21198.72	81.54	48.8	543.00	26498.40	32.74	544.80	17834.45	81.54	44332.85	23134.13	0.00
15	Providing and removing centering, shuttering, struting propping etc. and removal of form work for polygon in plan including cost of all materials. labour columns, pillars, post and struts, square / rectangular/	Sqm	166.53	545.00	90758.85	544.48	208.2	545.00	113448.56	336.32	544.80	183224.52	544.48	296673.09	205914.24	0.00
16	Providing and removing centering, shuttering, struting, propping etc. and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including	Sqm	149.84	347.00	51994.48	161.73	161.7	347.00	56119.27	0.00	544.80	0.00	161.73	56119.27	4124.79	0.00

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	Providing and removing centering, shuttering, strutting, propping etc.; and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications.																		
17	Providing and removing centering, shuttering, strutting, propping etc.; and removal of form work for slabs such as suspended floors, roofs, landings, balconies and like, thickness above 200 mm including cost of all materials, labour complete as per Specification	Sqm	79.97	348.00	27829.56			348.00	0.00			0.00		0.00	0.00	0.00	27829.56		
18	Providing and removing centering, shuttering, strutting, propping etc.; and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications.	Sqm	593.80	345.00	204891.00	681.08	681.1	345.00	234973.64	0.00		0.00	681.08	234973.64	30112.64	0.00			
19	Providing and removing centering, shuttering, strutting, propping etc.; and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and like, thickness above 200 mm including cost of all materials, labour complete as per Specification	Sqm	100.29	522.00	52351.38	101.97	102.0	522.00	53228.34	0.00		0.00	101.97	53228.34	876.96	0.00			
20	Providing and removing centering, shuttering, strutting, propping etc.; and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and like, thickness above 200 mm including cost of all materials, labour complete as per Specification	Sqm	100.29	524.00	52551.96	311.73	123.4	524.00	65689.95	188.30	544.80	101539.60	311.73	167219.55	114667.59	0.00			
21	KSRB 4 6 7: Providing and removing centering, shuttering, strutting, propping etc.; and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications Specification No. KBS 4 6 2 (P No 17) No 4 34 of PWD	Sqm	897.20	520.00	401344.00	1268.34	1109.0	520.00	576680.00	159.34	525.81	83782.38	1268.34	660462.38	199118.38	0.00			
22	KSRB 4 9 2: Providing T M T steel reinforcement for R C C work including straightening, cutting, bending, hooking, placing in position, tapping and / or welding wherever required, tying with binding wire and achoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS S.R 2018-19)	Tonne	6.89	99410.00	684934.90	6.68	6.7	99410.00	663592.23	0.00		0.00	6.68	663592.23	0.00	21341.67			
23	KSRB 4 9 2: Providing T M T steel reinforcement for R C C work including straightening, cutting, bending, hooking, placing in position, tapping and / or welding wherever required, tying with binding wire and achoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour HOM of machinery complete as per specifications. Specification No KBS	Tonne	4.08	100360.00	409468.80	10.75	5.1	100360.00	511836.00	5.65		1055532.62	10.75	1108055.73	698586.93	0.00			
24	KSRB 4 9 2: Providing T M T steel reinforcement for R C C work including straightening, cutting, bending, hooking, placing in position, tapping and / or welding wherever required, tying with binding wire and achoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No KBS	Tonne	26.79	101315.00	2714228.85	51.72	33.5	101315.00	3392706.06	18.23		1055532.62	1924343.77	51.72	5311712.83	2602900.98	0.00			
25	KSRB 2 6 : Providing and filling sand in foundation to required depth for sub soil treatment including watering ramming with all lead and lift complete as per	Cum	275.04	2445.00	672472.80	0.00		2445.00	0.00			0.00		0.00	0.00	0.00	672472.80		

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26	KSR& 5.11 Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lesathan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) 2005 and constructed with CM 1:4 , as per IS 2572 2005 including cost of all materials, labour charegs. scaffolding curing complete as per Specifications. KBS No 5.4	Sqm	222.76	1101.00	245259.76	1101.00	0.00			0.00							
27	KSR& 5.11 Providing and constructing load bearing wall with solid concrete blocks of sizw 400x200x200 mm having block density not lesathan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) 2005 and constructed with CM 1:4 , as per IS 2572 2005 including cost of all materials, labour charegs. scaffolding curing complete as per specifications. KBS No 5.4	Sqm	212.16	1136.00	241013.76	1136.00	0.00			0.00		0.00	0.00	241013.76			
28	KSR& 5.11 Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lesathan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) 2005 and constructed with CM 1:4 , as per IS 2572 2005 including cost of all materials, labour charegs. scaffolding curing complete as per specifications. KBS No 5.4	Sqm	1298.25	1172.00	1521549.00	288.7	288.7	1172.00	338329.44	0.00		288.68	338329.44	0.00	1183213.56		
29	KSR& 5.11 Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lesathan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) 2005 and constructed with CM 1:4 , as per IS 2572 2005 including cost of all materials, labour charegs. scaffolding curing complete as per specifications. KBS No 5.4	Sqm	46.62	1149.00	53566.38	571.99	58.3	1149.00	66957.98	513.72	1202.35	617665.81	571.99	684623.79	631057.41	0.00	
30	KSR& 5.11 Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lesathan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) 2005 and constructed with CM 1:4 , as per IS 2572 2005 including cost of all materials, labour charegs. scaffolding curing complete as per Specifications. KBS No 5.4	Sqm	55.12	1220.00	67246.40	789.87	68.9	1220.00	84058.00	720.97	1202.35	866858.25	789.87	950916.25	883669.85	0.00	
31	KSR&H 4 2.11 Providing and laying in position reinforced cement concrete of design Mix M20 with OPC @ 27 20kgs. with 12mm and down size graded granite metal course aggregates @0 0.065cum and fine aggregates @ 0.039 1cum, with superplasticiser @0 225ltr, machine mixed, well compacted for plain chaja of 8.5 cms average thickness, upto ground floor level, including cost of all materials, labour, HOM finishing, curing complete but excluding cost of reinforcement as per specifications. Specification No KBS 4 1 4 6 (Issue rate as on date 21-10 19, Item No 4 20)	Sqm	2.16	559.00	1207.44	559.00	0.00			0.00		0.00	0.00	1207.44			
32	KSR& 4 2.11 Providing and laying in position reinforced cement concrete of design Mix M20 with OPC @ 27 20kgs. with 12mm and down size graded granite metal course aggregates @0 0.065cum and fine aggregates @	Sqm	3.60	565.00	2034.00	565.00	0.00			0.00		0.00	0.00	2034.00			

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33	KSRB 4.2.11 : Providing and laying in position reinforced cement concrete of design Mix M20 with OPC @ 27.20kgs, with 12mm and down size graded granite metal coarse aggregates @0.05865cum and fine aggregtes @ 0.0391cum, with superplastisiser @0.225lts, machine mixed, well compacted for plain chajja of 8.5 cms. average thickness, upto ground floor level, including cost of all matenals, labour, HOM finishing, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6. (Issue rate as on date 21-10-19 Item No. 4.20)	Sqm	16.02	570.00	9131.40	62.58	20.0	570.00	11414.25	42.56	600.58	25557.75	62.58	36972.00	27540.60	0.00	
34	Providing wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of matenals, labour, HOM complete as per specifications. Honne wood frames	Cum	0.74	103979.00	76944.46	1.82	0.9	103979.00	96180.58	0.90	103978.94	93477.07	1.82	189657.64	112713.18	0.00	
35	Providing and fixing in position fully panelled wood shutters for doors with styles and rails of 40mm thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of	Sqm	30.24	5605.00	169495.20			5605.00	0.00			0.00		0.00	0.00	169495.20	
36	KSRB-15.3.8 Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding of corners wherever required smooth rendering, providing and removing scaffolding, including cost of all matenals, labours, curing, complete as per specificatioon. (Issue rate as on date 21-10-19 Item No. 15.16)	Sqm	212.11	326.00	69147.86			326.00	0.00			0.00		0.00	0.00	69147.86	
37	KSRB-15.3.8 Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding of corners wherever required smooth rendering, providing and removing scaffolding, including cost of all matenals, labours, curing, complete as per specificatioon. (Issue rate as on date 21-10-19 Item No. 15.16)	Sqm	189.29	332.00	62844.28	783.03	236.6	332.00	78555.35	546.42	316.91	173163.88	783.03	251719.23	188874.95	0.00	
38	KSRB-15.3.8 Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding of corners wherever required smooth rendering, providing and removing scaffolding, including cost of all	Sqm	1020.60	336.00	342921.60	2600.33	1275.8	336.00	428652.00	1324.58	324.03	429203.84	2600.33	857855.84	514934.24	0.00	
39	KSRB-15.3.8 Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding of corners wherever required smooth rendering, providing and removing scaffolding, including cost of all matenals, labours, curing, complete as per specificatioon. (Issue rate as on date 21-10-19 Item No. 15.16)	Sqm	81.87	292.00	23906.04			292.00	0.00			0.00		0.00	0.00	23906.04	
40	KSRB 15.3.13 Providing 12mm thick cement plastering in a single coat with cement mortar 1:3 to ceiling including rouding of corner wherever required smooth rendering, providing and removing scaffolding, including cost of matenals, Labour, Curing complete as per specification. (Issue rate as on date 21-10-19 Item No. 15.21)	Sqm	81.87	298.00	24397.26	238.23	102.3	298.00	30496.58	135.89	249.25	33871.77	238.23	64368.34	39971.08 0.00	~~39971.08~~	

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41	KSRB 15.3.13 Providing 12mm thick cement plastering in a single coat with cement mortar 1:3 to ceiling including rounding of corner wherever required smooth rendering, providing and removing scaffolding, including cost of materials, Labour Curing complete as per specification. (Issue rate as on date 21.10.19 Item No. 15.21)	Sqm	588.44	301.00	177120.44	1655.81	735.6	301.00	221400.55	920.26	256.37	235931.91	1655.81	457332.46	280212.02	0.00
42	KSRB 15.3.8 Providing 20mm thick cement plaster in single coat with cement mortar 1:4 to brick masonry including rounding of corners wherever required smooth rendering, providing and removing scaffolding, including cost of all materials, labours, curing, complete as per specification. (Issue rate as on date 21.10.19 Item No. 15.16(outer)	Sqm	276.60	341.00	94320.60	589.08	345.8	341.00	117900.75	243.33	321.66	78267.42	589.08	196168.17	101847.57	0.00
43	KSRB 15.3.8 Providing 20mm thick cement plaster in single coat with cement mortar 1:4 to brick masonry including rounding of corners wherever required smooth rendering, providing and removing scaffolding, including cost of all materials, labours, curing, complete as per specification. (Issue rate as on date 21.10.19 Item No. 15.16(outer)	Sqm	276.60	347.00	95989.20	650.02	345.8	347.00	119975.25	304.27	328.78	100036.76	650.02	220012.01	124031.81	0.00
44	KSRB 15.3.8 Providing 20mm thick cement plaster in single coat with cement mortar 1:4 to brick masonry including rounding of corners wherever required smooth rendering, providing and removing scaffolding, including cost of all materials, labours, curing, complete as per specification. (Issue rate as on date 21.10.19 Item No. 15.16(outer)	Sqm	1314.62	353.00	464060.86	2067.77	1643.3	353.00	580076.08	424.50	335.90	142367.41	2067.77	722603.48	238602.62	0.00
45	KSRB 17.2 : Providing and fixing in position aluminium windows and ventilators as per approved drawings with 222.2x31.75mm rolling four track window frame of size 1.205 kg/m, sashes and fly screen section 1.2 mm thick weight 1.063 kg/m, shutter section composing top and bottom section of sash 40mm thick weight 0.417 kg/m, shutter side outer 40mm x 18mm well thickness 1.25mm weight 0.417 kg/m, shutter interlock section 40mmx26.7mm wall thickness 1.1 mm weight 0.469 kg/m, shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles, lower bolts etc.; providing and fixing 5.5mm thick plain glass for shutters fitted with rubber beading including cutting to required length, joints mitred subdividing the frame, tenoned and riveted in the assembled frame to be stiffened with end clips at corners, angles etc., fixed to the walls, lintels, floor beams, cills as the case may be with necessary steel screws, raul plugs, or teak wood gattes including cutting masonry or concrete and making good the original surface using cement mortar, aluminium sections pretreated for removal of any rust and coated with greasy materials for non adhesion of mortar and other sticky materials, (this coating should be cleaned after installation) including cost of materials, fixtures, labour and HOM complete as per specifications. -do- using aluminium section anodized to 12 -15 microns	Sqm	9.30	4419.00	41361.84		4419.00	0.00				0.00		0.00	0.00	41361.84

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	KS/RB 7.12 Providing and fixing in position aluminum windows and ventilators as per approved drawings with sliding shutters using four track window frame of size 122 2x31 75mm for bottom section 1 1mm thick weight 1 205 kg/m. sides and top sections 1 2 mm thick weight 1 093 kg/m. shutter section comprising top and bottom section of size 40mmx16mm wall thickness 1 25mm weight 0 417 kg /m. shutter side outer 40mmx18mm wall thickness 1 25mm weight 0 417 kg/m. shutter interlock section 40mmx26 7mm wall thickness 1 1 mm weight 0 469 kg/m. shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles, lower bolts etc. providing and fixing 5 5mm thick plain glass for shutters fitted with rubber beading including cutting to required length, joints mitred subdividing the frame, tenoned and riveted in the assembled frame to be stiffened with end clips at corners, angles etc. fixed to the walls, lintels, floor beams cills, as the case may be with necessary steel screws, raul plugs, or teak wood gallies including cutting masonry or concrete and making good the original surface using cement mortar. aluminium sections pretreated for removal of any rust and coated with greasy materials for non adhesion of mortar and other sticky materials, (this coating should be cleaned after installation) including cost of materials, fixtures, labour and HOM complete as per specifications -do- using aluminium section anodized to 12 -15 microns											
46	KS/RB 7.12 Providing and fixing in position aluminum windows and ventilators as per approved drawings with sliding shutters using four track window frame of size 122 2x31 75mm for bottom section 1 1mm thick weight 1 205 kg/m. sides and top sections 1 2 mm thick weight 1 093 kg/m. shutter section comprising top and bottom section of size 40mmx16mm wall thickness 1 25mm weight 0 417 kg /m. shutter side outer 40mmx18mm wall thickness 1 25mm weight 0 417 kg/m. shutter interlock section 40mmx26 7mm wall thickness 1 1 mm weight 0 469 kg/m. shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles, lower bolts etc. providing and fixing 5 5mm thick plain glass for shutters fitted with rubber beading including cutting to required length, joints mitred subdividing the frame, tenoned and riveted in the assembled frame to be stiffened with end clips at corners, angles etc. fixed to the walls, lintels, floor beams cills, as the case may be with necessary steel screws, raul plugs, or teak wood gallies including cutting masonry or concrete and making good the original surface using cement mortar. aluminium sections pretreated for removal of any rust and coated with greasy materials for non adhesion of mortar and other sticky materials, (this coating should be cleaned after installation) including cost of materials, fixtures, labour and HOM complete as per specifications -do- using aluminium section anodized to 12 -15 microns	Sqm	9.36	4425.00	41418.00	4425.00	0.00	0.00	0.00	0.00	41418.00
47	KS/RB 7.12 Providing and fixing in position aluminum windows and ventilators as per approved drawings with sliding shutters using four track window frame of size 122 2x31 75mm for bottom section 1 1mm thick weight 1 205 kg/m. sides and top sections 1 2 mm thick weight 1 093 kg/m. shutter section comprising top and bottom section of size 40mmx16mm wall thickness 1 25mm weight 0 417 kg /m. shutter side outer 40mmx18mm wall thickness 1 25mm weight 0 417 kg/m. shutter interlock section 40mmx26 7mm wall thickness 1 1 mm weight 0 469 kg/m. shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles, lower bolts etc. providing and fixing 5 5mm thick plain glass for shutters fitted with rubber beading including cutting to required length, joints mitred subdividing the frame, tenoned and riveted in the assembled frame to be stiffened with end clips at corners, angles etc. fixed to the walls, lintels, floor beams cills, as the case may be with necessary steel screws, raul plugs, or teak wood gallies including cutting masonry or concrete and making good the original surface using cement mortar. aluminium sections pretreated for removal of any rust and coated with greasy materials for non adhesion of mortar and other sticky materials, (this coating should be cleaned after installation) including cost of materials, fixtures, labour and HOM complete as per specifications -do- using aluminium section anodized to 12 -15 microns	Sqm	45.27	4432.00	200636.64	4432.00	0.00	0.00	0.00	0.00	200636.64

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48	Providing and fixing Vitrified glazed tiles of approved make, quality & colour of size 600 x 600 x 10mm thick fixed on existing flooring with special adhesive for flooring, skirting and jointed with neat cement slurry mixed with pigment to mach shade of tiles, including providing spacers at required interval and removing stains, cost of materials, mortar, labour etc., complete as per specification	Sqm	75.40	1228.00	92591.20	72.03	72.0	1228.00	88452.84	0.00		0.00	72.03	88452.84	0.00	4138.36	
49	Providing and fixing Vitrified glazed tiles of approved make, quality & colour of size 600 x 600 x 10mm thick fixed on existing flooring with special adhesive for flooring, skirting and jointed with neat cement slurry mixed with pigment to mach shade of tiles, including providing spacers at required interval and removing stains, cost of materials, mortar, labour etc., complete as per specification	Sqm	70.86	1228.00	87016.08	72.03	72.0	1228.00	88452.84	0.00		0.00	72.03	88452.84	1436.76	0.00	
50	Providing skirting, dadoing, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over existing rough plaster surface using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Colour glazed tiles 15x15 cms 6mm thick	Sqm	85.62	1534.00	131341.08	361.70	107.0	1534.00	164176.35	254.68	1508.58	384196.42	361.70	548372.77	417031.69	0.00	
51	Providing skirting, dadoing, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over existing rough plaster surface using glazed tiles of approved make and size including cost	Sqm	170.87	1540.00	263139.80	361.70	213.6	1540.00	328924.75	148.11	1510.95	223790.46	361.70	552715.21	289575.41	0.00	
52	Providing and laying flooring using prepolished, gang saw/water cut 19mm thick granite laid with a bed of 20mm thick 1:4 cm & jointed ith neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all materials, mortar and labours etc., complete as per specifications -do- using silver grey granite I.Multy	Sqm	2524.18	3360.00	8481244.80	958.12	958.1	3360.00	3219283.20	0.00		0.00	958.12	3219283.20	0.00	5261961.60	
53	KSRB 9-27.1 Fixing Door frame in an existing opening including embedding frame in floor and walls after cutting masonry for hold fasts for embedding hold fast in cement concrete 1:3:6 of 20mm and down size granite metal painting two coats of coat tar to sides of frame, making good the damages to wall and floor as required and disposal of the debris with lead upto 50m including cost of materials, labour charges, complete as per specifications. (P-61, I-9.80)	Nos	10.00	1621.00	16210.00	25.00	13.0	1621.00	21073.00	12.00	1630.83	19569.94	25.00	40642.94	24432.94	0.00	
54	Providing and fixing 65mmx125mm GRP Doorframe fabricated using E-Glass Chopped Strand Mat (CSM) U.V.Stabilized Isopthalic Gel coat and Isopthalic resin. The Thickness of the GRP Skin shall not be less than 2.0mm.	Sqm	177.90	653.00	116168.70	228.00	222.4	653.00	145210.88	5.63	652.81	3672.03	228.00	148882.91	32714.21	0.00	
55	P/F Factory made single leaf rigid GRP Sandwich composite door shutter of 32mm thick, laminated with two GRP skins with wood grain finish, fabricated using U.V.-stabilized isopthalic Gel coat and on layer of 45gsm E-	Sqm	50.08	3561.00	178334.88	63.00	62.6	3561.00	222918.60	0.40	3560.76	1424.30	63.00	224342.90	46008.02	0.00	
56	KSRB 15-17.4 Applying **priming coat over new wood surface** and /or wood based surface, after brushing with ready mix enamel priming paint including preparing the surface after thoroughly cleaning oil, grease, dirt and	Sqm	75.60	59.00	4460.40	54.04	54.0	59.00	3188.21	0.00	59.35	0.00	54.04	3188.21	0.00	1272.19	

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57	KSR6 15-17.6 Providing and applying painting two coats (excluding first coat) of priming coat on new wood surface and for wood based priming coat on new wood surface and for wood cleaning the surface with enamel paint to give an even shade, sand papering including cost of materials, labour, complete as per specifications (I-15 60.1)	Sqm	75.60	115.00	8694.00	54.04	54.0	115.00	6214.31	0.00	115.13	0.00	54.04	6214.31	0.00	2479.69
58	KSR6 7.9 Providing and fixing M.S Grill work for windows and ventilators weighing 21kg/sqm using M.S Flats, or M.S. Squared rods, or combination of M.S Flats and square rods as per approved design, drawing including cutting steel sections with a cross welding the same to required pattern with a coat of red lead primer, cost of all materials, fixtures, labour and HOM of machinery complete as per specifications. (I-7 9)	kg	1343.79	113.00	151848.27	4963.14	1679.7	113.00	189810.34	3283.40	127.00	416993.56	4963.14	666803.90	454955.63	0.00
59	Providing and Applying enamel metal Paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter including cost of materials labour complete.	Sqm	2821.96	113.00	318881.48	353.25	353.3	113.00	39917.25		0.00	0.00	353.25	39917.25	0.00	278564.23
60	KSR6 15.7 Providing lime rendering for plastering to wall and ceiling including cost of materials, labour, curing complete as per specifications. (page no 117 item no 15.33 S.R 2018-19)	Sqm	2174.18	38.00	82618.84	2050.76	2050.8	38.00	77928.98	0.00	52.22	0.00	2050.76	77928.98	4689.86	
61	KSR6 15.14.1 Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface	Sqm	2174.18	131.00	284817.58	1326.76	1326.8	131.00	173805.56	0.00	135.31	0.00	1326.76	173805.56	111012.02	
62	KSR6 15.16.1 Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of	Sqm	1867.82	121.00	226008.22			121.00	0.00		0.00	0.00	0.00	0.00	0.00	226008.22
63	Providing and fixing M.S. Hand railing for Balcony with 50mm dia M S hollow pipe of 14 gauge, welded to 20mmx20mm M S square rod placed vertically, spaced at 100mm at regular intervals of 600mm. These vertical rods laterally tied to 3 horizontal rods spaced at equal interval. These assembly is fixed to concrete by using expansion bolts and welding the same to reinforcement bars and making good the surface. All the joints and sections hould be cut to length, welded and grinded wherever necessary etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc., complete as per specification and drawing	Sqm	44.00	3371.00	148324.00	93.88	55.0	3371.00	185405.00	38.88	3377.97	131335.64	93.88	316740.64	168416.64	0.00
64	KSR6 7.5 Providing and fixing pull and push type rolling shutters of approved make out of 18 guage, 75mm wide cold rolled steel laths of convex corrugation, with side guides and bottom rail, with interlocking arrangements for steel laths by means of alternate clips, suspension shaft with High tension coil type springs two numbers, mounted	Nos	5.04	3094.00	15593.76			3094.00	0.00		0.00	0.00	0.00	0.00	0.00	15593.76

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65	Anti corrosive treatment to granolithic/ tiled/ mosaic/ cement grinding/ Cuddapah/ Kadapa stone flooring/ kota stone flooring/ cement concrete flooring/ RCC flooring/ Terrace/ pavement/ toilet/ bathroom/ kitchen/ staircase/ corridor/ passage/ balcony/ verandah/ floor/ skirting/ dado/ wall/ ceiling/ etc. of any floor/ wall/ ceiling/ etc. at any height/ depth/ level in any shape/ size/ area/ pattern/ design/ colour/ thickness/ etc. in any building/ structure/ etc. by preparing the surface by chipping/ grinding/ cleaning/ etc. by removing loose/ damaged/ cracked/ weak/ cracks/ crevices/ pockets/ etc. and filling/ repairing/ plastering/ etc. with cement mortar 1:3 (1 cement : 3 fine sand) admixed with 10% of Dr. Fixit Pidilite Waterproofing Integral Liquid @ 0.80 ltr per bag of cement and curing for 7 days and finally applying polymer slurry made out of cross linked acrylic / styrene / butadiene & cement in the ratio of 1:0.1; @0.50kg/sqm on the whole surface including all labour charges, tools and equipments, all complete as per the specifications, drawings & directions of Engineer-in-charge. (DRS 11 No.10)	Sqm	66.37	2234.00	148238.58	2234.00	0.00		0.00	0.00	0.00	148238.58
66	Providing & laying in position heavy duty cobble stones manufactured out of approved hard stone/ basalt/ granite/ trap/ quartzite/ sandstone/ kankar/ laterite/ marble/ etc. of required colour, shape & size, in required pattern, including hammer dressing to the required shape & size, laying in cement mortar 1:4 (1 cement : 4 fine sand) including cutting, wastage, curing, etc. complete. (Rate for 1 sqm area) (Item No. 8.29.2, PWD SR 2018-19	Sqm	29.24	1250.00	36550.00	1250.00	0.00		0.00	0.00	0.00	36550.00
67	Providing and laying pre cast solid concrete kerb stones of M-30 grade (1:1:2 mix) with 12 mm HYSD bars as reinforcement, including cutting etc. complete. (Page No. 127, Item No. 8.29.2, PWD SR 2018-19	Nos	560.00	8164480.40	560.00	0.00		0.00	0.00	0.00	8164480.40
68	Providing & applying two coats of exterior grade acrylic based paint with synthetic enamel paint as approved make to the surface (plastered/ concrete surfaces with materials, labour and equipments complete as per specifications, MORTH Chapter 8 Page No. 8.3.3.2 (Item No. 8.3.3.2, PWD SR 2018-19	Sqm	95.00	0.00					0.00	0.00	0.00	0.00
69	Providing & laying in position heavy duty cobble stones manufactured out of approved hard stone/ basalt/ granite/ trap/ quartzite/ sandstone/ kankar/ laterite/ marble/ etc. of required colour, shape & size, in required pattern, including hammer dressing to the required shape & size, laying in cement mortar 1:4 (1 cement : 4 fine sand) including cutting, wastage, curing, etc. complete. (Rate for 1 sqm area) (Item No. 8.29.2, PWD SR 2018-19	Sqm	95.00	0.00					0.00	0.00	0.00	0.00
70	Providing & laying in position (UPVC) pipes conforming to IS 15778 having thermal conductivity and cold water supply including all CPVC plain and brass threaded fittings, the excludes painting of pipes and fittings of parts complete (External work and Burried) Page No-393 Item No-13.87	Mtr	450.00	95400.00	61.00	61.0	212.00	12932.00	0.00	61.00	12932.00	0.00	824468.00
71	32mm dia.	Mtr	550.00	268.00	147400.00	146.00	146.0	268.00	39128.00	0.00	0.00	146.00	39128.00	0.00	108272.00
72	40mm dia	Mtr	370.00	347.00	128390.00	41.00	41.0	347.00	14227.00	0.00	0.00	41.00	14227.00	0.00	114163.00
73	Providing and fixing water meter with stop cock, jam nut, socket on G.I pipe line including cutting and threading the pipe and making king screws including cost of all materials, labour, HOM of equipments and testing complete as per	Set	10.00	15670.00	6.00	6.0	1567.00	9402.00	0.00	6.00	9402.00	0.00	6268.00
74	Providing and fixing in position brass ball valve high or low pressure with plastic float of approved quality below ground level including cost of all materials, labour and HOM of equipments with all leads complete as per	Each	12.00	609.00	7308.00	12.00	12.0	609.00	7308.00	0.00	0.00	12.00	7308.00	0.00	0.00
75	Providing and fixing in position brass double valve with CI wheel of approved quality below ground level including cost of all materials, labour and HOM of equipments with all leads complete as per specification	Nos	10.00	985.00	9850.00	6.00	6.0	985.00	5910.00	0.00	0.00	6.00	5910.00	0.00	3940.00
76	40mm dia.	Nos	10.00	1234.00	12340.00	6.00	6.0	1234.00	7404.00	0.00	0.00	6.00	7404.00	0.00	4936.00

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77	KSRB13-7.1-3 : Providing and fixing in position 40mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No KBS 13.2.10 / 13.13 KSRB13-7.1-3 - do - 40 mm dia nominal bore Page No-95, Item No-13.54	Each	11.00	1124.00	12364.00	11.00	11.0	1124.00	12364.00	0.00		0.00	11.00	12364.00	0.00	0.00	
78	Providing and fixing white vitreous china clay, water closet European type (Pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 (Page No. 79, I.No. 12.5 of KPWD S.R 2018-19)	Each	37.00	5882.00	217634.00	40.00	40.0	5882.00	235280.00	0.00		0.00	40.00	235280.00	17646.00	0.00	
79	Providing and fixing white vitreous china clay, angle back wash basin size 600X480mm with a single 15mm C.P brass pillar tap with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.	Unit	18.00	3903.00	70254.00	32.00	22.5	3903.00	87817.50	9.50	3902.59	37074.63	32.00	124892.13	54638.13	0.00	
80	Providing and fixing in position brass bib cock of approved quality, 15mm nominal bore including cost of all materials, labour and HOM with all leads complete as per specifications. Specification No KBS 13.2.2 / 13.3	Unit	40.00	226.00	9040.00	92.00	50.0	226.00	11300.00	42.00	225.51	9471.62	92.00	20771.62	11731.62	0.00	
81	Providing and fixing C.P. brass towel rail 740mm length, 20mm dia with C.P brackets fixed to wooden cleats with C.P. brass screws including cost of materials, labour complete as per specifications	Unit	16.00	877.00	14032.00	24.00	0.0	877.00	0.00	0.00		0.00		0.00		14032.00	
82	Providing and fixing Chonnated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings. this includes jointing of	Mtr	660.00	245.00	161700.00	116.00	116.0	245.00	28420.00	0.00		0.00	116.00	28420.00	0.00	133280.00	
83	Providing & fixing Chonnated Poly Venyl(CPVC)20mm nominal OD pipes confirming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. trenching, refilling and testing of	Mtr	500.00	279.00	139500.00			279.00	0.00			0.00		0.00	0.00	139500.00	
84	Providing & fixing Chonnated Poly Venyl(CPVC)20mm nominal OD pipes confirming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. trenching, refilling and testing of	Mtr	510.00	348.00	177480.00			348.00	0.00			0.00		0.00	0.00	177480.00	
85	Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 25mm nominal bore including cost of all materials, labour and HOM with all leads complete as per specifications. Specification No.KBS	Each	12.00	533.00	6396.00	6.00	6.0	533.00	3198.00	0.00		0.00	6.00	3198.00	0.00	3198.00	

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86	Providing and fixing in position brass stop cock of approved quality 15mm nominal bore including cost of all materials, labour and HOM with all leads complete as per specifications. Specification No KBS 13 2 2 / 13 3	Each	12.00	167.00	2004.00	92.00	15.0	167.00	2505.00	77.00	167.36	12886.39	92.00	15391.39	13367.39	0.00	
87	Providing and fixing to wall, ceiling and floor, medium density polyethylene pipes 6.00 kgs/sq cm working pressure of outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor including cost of all materials, labour charges, HOM and testing complete as per specifications.	Mtr	450.00	271.00	121950.00			271.00	0.00			0.00		0.00	0.00	121950.00	
88	Providing and fixing to wall, ceiling and floor, medium density polyethylene pipes 6.00 kgs/sq cm working pressure of outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor including cost of all materials, labour charges, HOM and testing complete as per specifications. Specification No KBS 13 2 15 1 / 13 9 for internal water	Mtr	350.00	387.00	135450.00	56.00	56.0	387.00	21672.00	0.00		0.00	56.00	21672.00	0.00	113778.00	
89	Providing and fixing to wall, ceiling and floor, medium density polyethylene pipes 6.00 kgs/sq cm working pressure of outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor including cost of all materials, labour charges, HOM and testing complete as per specifications. Specification No KBS 13 2 15 1 / 13 9 for internal water supply connection 40mm dia	Mtr	200.00	534.00	106800.00	720.75	250.0	534.00	133500.00	470.75	706.22	332451.84	720.75	465951.84	359151.84	0.00	
90	Constructing brick masonry inspection chamber for single pipeline using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) internal dimensions, total weight of cover with frame to be not less than 36 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications Specification No KBS 600x600mm and 450mm depth (clear inside dimension) for single pipeline, using table moulded non modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 600x600mm	NOS	13.00	10077.00	131001.00	20.00	16.0	10077.00	161232.00	4.00	10076.95	40307.80	20.00	201539.80	70538.80	0.00	
91	Supplying heavy gauge PVC conduit pipe ..... mm dia ..... mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to	Mtr	830.00	44.00	36520.00	1000.00	1000.0	44.00	44000.00	0.00		0.00	1000.00	44000.00	7480.00	0.00	
92	25mm dia 2mm thick	Mtr	480.00	58.00	27840.00	600.00	600.0	58.00	34800.00	0.00		0.00	600.00	34800.00	6960.00	0.00	
93	32mm dia 2.5mm thick	Mtr	300.00	91.00	27300.00			91.00	0.00			0.00		0.00	0.00	27300.00	
94	Groove cutting in walls Supplying heavy gauge PVC Conduit Pipe ..... dia ..... mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement	Mtr	345.00	56.00	19320.00	395.00	395.0	56.00	22120.00	0.00		0.00	395.00	22120.00	2800.00	0.00	
95	25mm dia 2mm thick	Mtr	185.00	59.00	10915.00	225.00	225.0	59.00	13275.00	0.00		0.00	225.00	13275.00	2360.00	0.00	
96	32mm dia 2.5mm thick	Mtr	165.00	89.00	14685.00			89.00	0.00			0.00		0.00	0.00	14685.00	

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97	Extra for Groove cutting in brick wall/CC floor to the suitable depth for concealing of Conduit/GI pipe and plastering. finishing upto wall surface complete		175.00	23.00	4025.00			0.00	23.00			0.00			0.00	0.00	4025.00
98	Upto 50mm Conduit CC floor	Mtr	115.00	42.00	4830.00			0.00	42.00			0.00			0.00	0.00	4830.00
99	Supplying and fixing of PVC casing and capping on the wall or ceiling using necessary materials like bends, screws at an interval of 300mm ... etc as required 25mm	Mtr	310.00	26.00	8060.00				26.00	0.00			0.00		0.00	0.00	9050.00
100	Supplying And Fixing Metal Fan Box with Round Hook	Nos	6.00	93.00	558.00	26.00	7.5	93.00	697.50	18.50	93.42	1728.18	26.00	2425.68	1667.68	0.00	
101	Point wiring using Copper wire without switch. Supplying and wiring adopting loop system in existing PVC Conduit / flexible casing / capping using 1100V grade. COPPER conductor Cable confirming to FRLS PVC insulated. 2X1 55q mm of the wires shall be terminated with sufficient loose length	Point	63.00	176.00	11088.00	33.00	33.0	176.00	5808.00	0.00		0.00	33.00	5808.00	0.00	5280.00	
102	Medium point: 3 Mtr to 6 Mtrfrom tapping point to out let via switch	Point	32.00	275.00	8800.00	90.00	40.0	275.00	11000.00	50.00	274.75	13737.50	90.00	24737.50	15937.50	0.00	
103	Point wiring using Copper wire without switch. Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade. COPPER conductor flexible multistrand FRLS PVC insulated. 2X1 55q mm	Point	20.00	412.00	8240.00	400.00	25.0	412.00	10300.00	375.00	412.00	154500.00	400.00	164800.00	156560.00	0.00	
104	Point wiring using Copper wire without switch. Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade. COPPER conductor flexible multistrand FRLS PVC insulated. 2X1 55q mm of the wires shall be terminated with sufficient loose length in a wood/PVC modular box mounted on wall/ceiling. GROUP A - Two outlet in a row, above 6Mtr upto 10Mtr from tapping point to out let via switches — etc., complete with	Point	57.00	522.00	29754.00	40.00	40.0	522.00	20880.00	0.00		0.00	40.00	20880.00	0.00	8874.00	
105	There outlet in a row, above 6Mtr upto 10Mtr from tapping point to out let via switches	Point	48.00	742.00	35616.00			742.00	0.00			0.00			0.00	35616.00	
106	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade multistrand Copper with low conductor resistance single core wire in open or concealed system or wiring with specified IS-694-1990 & conforming to	Mtr	2450.00	23.00	56350.00	2689.00	2689.0	23.00	61847.00	0.00		0.00	2689.00	61847.00	5497.00	0.00	
107	2.5 sqmm	Mtr	4350.00	34.00	147900.00	4642.00	4642.0	34.00	157828.00	0.00		0.00	4642.00	157828.00	9928.00	0.00	
108	4 sqmm	Mtr	2060.00	47.00	96820.00	816.00	816.0	47.00	38352.00	0.00		0.00	816.00	38352.00	0.00	58468.00	
109	6 sqmm	Mtr	1130.00	74.00	83620.00	900.00	900.0	74.00	66600.00	0.00		0.00	900.00	66600.00	0.00	17020.00	
110	10 sqmm	Mtr	370.00	124.00	45880.00			124.00	0.00			0.00		0.00	0.00	45880.00	
111	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C C wall - 1-Way — etc., complete with all lead & lift. as per specifications and as per directions of the Engineer in charge of the work.	Nos	52.00	104.00	5408.00	21.00	21.0	104.00	2184.00	0.00		0.00	21.00	2184.00	0.00	3224.00	
112	4-Sway	Nos	42.00	115.00	4830.00			115.00	0.00			0.00		0.00	0.00	4830.00	
113	6Way	Nos	51.00	137.00	6987.00			137.00	0.00			0.00		0.00	0.00	6987.00	
114	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C C wall - 6Way — etc., complete with all	Nos	29.00	159.00	4611.00	45.00	36.3	159.00	5763.75	8.75	159	1391.25	45.00	7155.00	2544.00	0.00	

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115	Supplying and fixing mounting channel (slotted, galvanised, perforated) for mounting modular switch plates. The channel shall be 41 mm x 21 mm x 1.6 mm thick (nominal) and shall be cut to size with cutting allowance of 3 mm. Channel shall be supplied with end caps.																		
116	Supplying and fixing modular switch plate with necessary supporting arrangement for mounting on the existing modular switch boards, etc., complete with all accessories as per specifications and as per directions of the Engineer in Charge of the work.																		
	Module (Item No.1.1.4.9.1)	Nos	25.00	121.00	3025.00	98.00	23.0	121.00	3025.00	75.00	181	4519.00	96.00	117.00	14042.00	0.00	0.00	0.00	0.00
117	4 Module	Nos	25.00	137.00	3425.00			137.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00
118	6 Module	Nos	25.00	192.00	4800.00			192.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00
119	Supplying and fixing superior quality modular switch mounting perforated plate with necessary supporting arrangement for mounting on the existing modular switch boards, etc., complete with all tools & kit as per specifications and as per directions of the Engineer in Charge of the work.																		
	Modular switch plate as per IS 3854 and IS 1293	Nos	6.00	220.00	1320.00	45.00	7.5	220.00	1650.00	37.50	220	8250.00	45.00	9900.00	9900.00	0.00	0.00	0.00	0.00
120	Supplying and fixing superior quality modular switch mounting perforated plate with necessary supporting arrangement for mounting on the existing modular switch boards, etc., complete with all tools & kit as per specifications and as per directions of the Engineer in Charge of the work.																		
	Modular switch plate as per IS 3854 and IS 1293	Nos	4.00	253.00	1012.00	104.00	5.0	253.00	1265.00	99.00	253	25047.00	104.00	25712.00	25300.00	0.00	0.00	0.00	0.00
121	Supplying and fixing of modular switch, Socket-stepped electronic fan regulator, dimmer/electronic socket etc on existing modular switch plate as per IS 3854 and IS 1293																		
	GROUP A Varios one way — etc. complete with all fixed	Nos	30.00	104.00	3120.00			104.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00
122	Varios Two Way	Nos	10.00	115.00	1150.00	110.00	12.5	115.00	1437.50	97.50	115	11212.50	110.00	12650.00	11500.00	0.00	0.00	0.00	0.00
123	Supplying and fixing of modular switch, Socket-stepped electronic fan regulator, dimmer/electronic socket etc on existing modular switch plate as per IS 3854 and IS 1293																		
	GROUP A Varios 3pins socket — etc. complete with all	Nos	16.00	319.00	5104.00	82.00	20.0	319.00	6380.00	62.00	319	19778.00	82.00	26158.00	21824.00	0.00	0.00	0.00	0.00
124	Supplying and fixing of modular switch, Socket-stepped electronic fan regulator, dimmer/electronic socket etc on existing modular switch plate as per IS 3854 and IS 1293																		
	GROUP A Varios one way — etc. complete with	Nos	45.00	126.00	5040.00			126.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00
125	6/15Amps Universal Socket	Nos	24.00	178.00	4272.00			178.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00
126	Supplying 50mm wooden peg, tapered from 50x50mm to 25x25mm and fixing by using bonding wire before concreting a roof slab.	Nos	900.00	8.00	7200.00		8.00	0.00				0.00		0.00	0.00	0.00	0.00	0.00	0.00
127	Supplying and fixing cord of 250 volts 2 key clamp bell and a flush type bell push with gang box fixed on necessary wooden or steel plugs using NF screws.	Nos	6.00	242.00	1452.00		242.00	0.00				0.00		0.00	0.00	0.00	0.00	0.00	0.00
128	Supply and fixing polished wood board made of hot less impervious laminated plastic sheet to both faces 2 mm thick and fixing the same to the wall using nylon plugs 2	Nos	50.00	327.00	16350.00		327.00	0.00				0.00		0.00	0.00	0.00	0.00	0.00	0.00
129	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and	Nos	10.00	249.00	2490.00		249.00	0.00				0.00		0.00	0.00	0.00	0.00	0.00	0.00
130	Supplying of on load change over switches 4 poles, AC-23A Duty, 415V, 50Hz, AC Supply, With all accessories (SM Enclosure Sheet Metal Execution)	Nos	2.00	5825.00	11650.00		5825.00	0.00				0.00		0.00	0.00	0.00	0.00	0.00	0.00
131																			

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132	Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with	Nos	2.00	7693.00	15386.00	10.00	2.5	7693.00	19232.50	7.50	7693	57697.50	10.00	76930.00	61544.00	0.00	
133	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring	Nos	4.00	477.00	1908.00	180.00	5.0	477.00	2385.00	175.00	477	83475.00	180.00	85860.00	83952.00	0.00	
134	5-32 Amps Dp Group'A'	Nos	4.00	999.00	3996.00			999.00	0.00			0.00		0.00	0.00	3996.00	
135	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898 - 40-63Amps TPN — etc., complete with all lead & lift, as per specifications and	Nos	2.00	1885.00	3770.00		0.0	1885.00	0.00	0.00		0.00	0.00	0.00		3770.00	
136	50-63 Amps TPN	Nos	2.00	2634.00	5268.00	20.00	2.5	2634.00	6585.00	17.50	2634	46095.00	20.00	52680.00	47412.00	0.00	
137	Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS	Nos	2.00	1978.00	3956.00			1978.00	0.00			0.00		0.00	0.00	3956.00	
138	4 way TPN	Nos	2.00	2912.00	5824.00			2912.00	0.00			0.00		0.00	0.00	5824.00	
139	6 Way TPN	Nos	2.00	3660.00	7320.00			3660.00	0.00			0.00		0.00	0.00	7320.00	
140	Supplying, fixing and wiring Residual current circuit breaker (RCCB) 240/450V up to 300mA sensitivity on existing wood/panel board——25 Amps DP	Nos	4.00	4066.00	16264.00	3.00	3.0	4066.00	12198.00	0.00		0.00	3.00	12198.00	0.00	4066.00	
141	32 Apms 4 pole	Nos	2.00	4709.00	9418.00			4709.00	0.00			0.00		0.00	0.00	9418.00	
142	Supplying, fixing and wiring earth leakage relay with core balanced current transformer suitable for single phase 50 Hz AC with latest microcontroller based, digital readout of percentage leakage current, programmable delay/auto/	Nos	2.00	8462.00	16924.00			8462.00	0.00			0.00		0.00	0.00	16924.00	
143	Supplying, fixing and wiring 3 Phase Digital Ammeter	Nos	4.00	1302.00	5208.00			1302.00	0.00			0.00		0.00	0.00	5208.00	
144	Supplying of multi function digital meter with three line back light LCD type display for voltage, Current, frequency, Power, power factor, KVA, KWH,KVAR suitable for 3 phase, 4 wire LT network with IP 54 degree of protection and completely wired as required with communication Port	Nos	2.00	8517.00	17034.00			8517.00	0.00			0.00		0.00	0.00	17034.00	
145	Supplying, fixing and wiring 50/5 to 400/5Amps 5VA burden Current Transformer. Class 0.5 accuracy with Tape Wound.	Nos	4.00	514.00	2056.00			514.00	0.00			0.00		0.00	0.00	2056.00	
146	Supplying, fixing and wiring Electronic Trivector Meter (ETV) 5 to 32/63 Amps three phase 4 wire whole current class-1 Accuracy Energy Meter	Nos	4.00	5215.00	20860.00	1.00	1.0	5215.00	5215.00	0.00		0.00	1.00	5215.00	0.00	15645.00	
147	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C. 50 Hz 12/24v D.C.	Nos	6.00	473.00	2838.00			473.00	0.00			0.00		0.00	0.00	2838.00	
148	Supplying, fixing and wiring heavy duty low voltage capacitors conforming to IS 2834. 3 phase, 400/440 volts grade, for power factor improvement of rotating machineries like induction motor.	Nos	10.00	438.00	4380.00			438.00	0.00			0.00		0.00	0.00	4380.00	
149	Supplying ..... amps rated 3phase with neutral bus bar using required capacity electrolytic aluminum strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/ DMC insulator which are mounted on powder	Mtr	12.00	2253.00	27036.00			2253.00	0.00			0.00		0.00	0.00	27036.00	
150	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron., and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of	Mtr	12.00	280.00	3360.00			280.00	0.00			0.00		0.00	0.00	3360.00	

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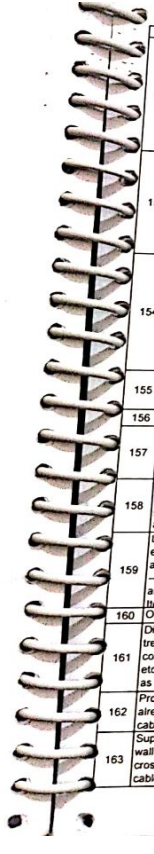

151	50X100X50X6mm C channel 50*6mm	Mtr	10.00	692.00	6920.00			692.00	0.00			0.00		0.00	0.00	6920.00	
152	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete. - 14SWG ---- etc., complete with all lead & lift, as per	Sqcm	80000.00	1.00	80000.00	106720.00	100000.0	1.00	100000.00	6720.00	0.44	2956.80	106720.00	102956.80	22956.80	0.00	
153	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts,	Each	6.00	3297.00	19782.00	2.00	2.0	3297.00	6594.00	0.00		0.00	2.00	6594.00	0.00	13188.00	
154	Supplying fixing and wiring earth electrode for grounding of lifts, transformers, DG sets etc. using 40mm dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm all-round with alternate layers of salt and charcoal from the bottom of the	Nos	2.00	4561.00	9122.00			4561.00	0.00			0.00		0.00	0.00	9122.00	
155	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required. GI strip	Mtr	8.00	82.00	656.00			82.00	0.00			0.00		0.00	0.00	656.00	
156	Cpopper Strip 25 X 3mm	Mtr	6.00	555.00	3330.00			555.00	0.00			0.00		0.00	0.00	3330.00	
157	Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas/spacers etc. GI Wire - 8 SWG ---- etc., complete with all lead & lift,	Mtr	90.00	64.00	5760.00	50.00	50.0	64.00	3200.00	0.00		0.00	50.00	3200.00	0.00	2560.00	
158	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq mm wire armoured) confirming to IS-3975:1990 (No. of Strip	Mtr	30.00	198.00	5940.00	140.00	37.5	198.00	7425.00	102.50	198	20295.00	140.00	27720.00	21780.00	0.00	
159	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct. - 25 sqmm to 95 sqmm --- etc., complete with all lead & lift, as per specifications and as per directions of the Engineer in charge of the work.(Item No.6.5.2 Page 41)	Mtr	20.00	17.00	340.00	140.00	25.0	17.00	425.00	115.00	17	1955.00	140.00	2380.00	2040.00	0.00	
160	On wall sleucture 25 sqmm to 75 sqmm	Mtr	20.00	38.00	760.00			38.00	0.00			0.00		0.00	0.00	760.00	
161	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete As per Civil SR KSRB I-2, P-7) - In soil (hard) ---- etc., complete with all lead & lift, as per specifications and as per directions of the Engineer in charge of the work.(	Mtr	30.00	112.00	3360.00	120.00	37.5	112.00	4200.00	82.50	112	9240.00	120.00	13440.00	10080.00	0.00	
162	Providing and filling sand in excavated trench to cover already laid UG cable to a depth of 150mm all-round the cable.	Mtr	30.00	110.00	3300.00				0.00			0.00		0.00	0.00	3300.00	
163	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV. - 65mm ---- etc., complete with all lead &	Mtr	20.00	662.00	13240.00	10.00	10.0	662.00	6620.00	0.00		0.00	10.00	6620.00	0.00	6620.00	

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164	Supplying and fixing of heavy duty cable glands suitable for XLPE/PVC cable of 1.1 KV class (metal only) - 45mm dia ---- and as per directions of the Engineer in charge of the installation complete with all lead & lift as per specifications	Nos.	40.00	129.00	5160.00	2.00	2.0	129.00	258.00	0.00	0.00	2.00	258.00	0.00	4902.00
165	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes ------- 2.5Sqmm	Nos.	40.00	4.00	160.00			4.00	0.00		0.00		0.00	0.00	160.00
166	4sqmm	Nos.	30.00	8.00	240.00			8.00	0.00		0.00		0.00	0.00	240.00
167	6sqmm	Nos.	24.00	8.00	192.00			8.00	0.00		0.00		0.00	0.00	192.00
168	10sqmm	Nos.	24.00	9.00	216.00			9.00	0.00		0.00		0.00	0.00	216.00
169	25sqmm Long Barrel	Nos.	30.00	22.00	660.00			22.00	0.00		0.00		0.00	0.00	660.00
170	Supplying of Ceiling Fan with Capacitor rating As per guideline of BEE 5 star rating and IS 374/79 and also comply with IS 1709/1984 with latest amendment. Rated voltage: 220 V/50 Hz. Rated power input 48 W +/- 10 %. Rated current As per IS 374/79. Rated power factor 0.9 lagging(min). Rated speed 350 +/- 10% RPM. Rated air delivery 210 +/- 10% Cubic Meter /Minimum. Rated service value: 2.4 CMM / Watt. Three Blades of blade: lead 1.05mm thick Aluminium Alloy sheet. Class B motor insulation Housing: Two ball bearings. Top 6202, Bottom 6201 as per IS specification. Motor wdg. Temp rise: Shall not exceed 75 degC over and ambient of 40 0C by resistance method at 245Volts. Insulation resistance: Shall not be less than Two Mega Ohms (2 M Ohms).	Nos	30.00	3187.00	95610.00	18.00	18.0	3187.00	57366.00	0.00	0.00	18.00	57366.00	0.00	3824.00
171	Supplying & fixing retrofit type 4'L LED Lamp 8 6W LED linear source with CCT 6500 degree K, CRI > 70% efficacy >80 lumen per watt life > 25000 burning hours. The LED are driven by HF electronic driver integrated in the system with PF > 0.95, power loss should < 5% of lamp wattage, short circuit & open circuit protection to be integrated in the circuit, THD less than 20%. Life as per LM 79. The operating input voltage should be between 130 to 275 volts. Tested by NABL/CPRI.	Nos	51.00	385.00	19635.00			385.00	0.00		0.00		0.00	0.00	15635.00
172	Supplying of ... feet - PVC Batten with integrated LED tube ... W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power input 220-240V @ 50/60Hz & Power factor >0.9 along with CE approved 2 years Warranty against any manufacturing defect working under standard electrical condition LED light fighting 1 x4' - 20/22 w	Nos	28.00	420.00	11760.00			420.00	0.00		0.00		0.00	0.00	11760.00
	LED light fighting 2X4' - 20/22 W	Nos	10.00	687.00	6870.00			687.00	0.00		0.00		0.00	0.00	6870.00
	...ing all types and all capacities of fluorescent /f also ...eiling/spot light /CFL/LED fittings indoor on the wall/ ...eiling/afterdrgiders using 230 0076 twin twisted PVC ...sulated wires, required Nos of round blocks and ...amps. (1'14/17.7)C) Using 1 Mtr long 19mm 18 SWG ...arneled brazed conduit of two nos rod pendent with ...ll socket with check nuts all nickel plated ---- including ...st of all materials, with all lead, lift and labour charges	Nos	30.00	130.00	3900.00	70.00	37.5	130.00	4875.00	32.50	120.89	3928.93	70.00	8803.93	4903.93	0.00	6870.00

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175	KSRB 13-11 : Providing and placing on terrace, polyethylene water storage tanks as per IS 12701 : 1996 with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all matenals, labour, transport charges, HOM and testing complete as per specifications. (For 1000 litre capacity) Specification No KBS 13.22	Nos	2.00	8104.00	16208.00	6	3.0	8104.00	24312.00	3.00	8104.29	24312.87	6.00	48624.87	32416.87	0.00	
176	Supplying 50 litres capacity vertical/horizontal type wall mounting Electrical water heater with 22 SWG copper/SS sheet metal inner Container tinned inside and anticorrosive paint outside and 20 SWG M.S. sheet metal outer cover filled with glass wool between inner and outer container for thermal insulation complete. The inlet and outlet pipes so arranged that water flow inside results in water to flow out from the inner container without turbulence. The Inner container shall have direct immersion type copper tube nickel plate .2KW capacity element with a neon indicator fitted with 20A capacity 25 to 85 degree Centigrade range thermostat. The water heater shall completely be wired with 40/0.0076 inch 3 core copper flexible wire of 1.5 meters length and the outer container provided with heavy gauge brackets for wall mounting. (Electric SR I no 8.1.5	Nos	10.00	17574.00	175740.00	10.00	0.0	17574.00	0.00	0.00		0.00		0.00	0.00	175740.00	
					28353750.00				17504601.32			8976880.62		26481481.94	11256524.56	13128794.19	

Percentage excess over the Tender Amount = workslip Amount 11256524.56 / Tender Amount 28353750.00 x100 = 39.70 %.

"Here by workslip amount Rs: 11,256,524/-
[Rs one crore twevale lakhs fifty six thousand five hundred twenty four only) its approved"

workslip is approved

Contactor

Consultants

Assistant Engineer
Ward No-16
BBMP

Asst. Executive Engineer
Yeshwanthpura Sub Division
BBMP
Bruhat Bangalore Mahanagara Palike

Executive Engineer
Rajarajeshwari Nagara Division
BBMP

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